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53D CONGRESS, 2d Session.

U. S. DEPARTMENT OF AGRICULTURE.
WEATHER BUREAU.

### DETAILS OF PRECIPITATION

(RAIN AND MELTED SNOW)

AT

STATIONS IN NEBRASKA AND SOUTH DAKOTA.

MARCH 6, 1894.—Ordered printed by resolution.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1894.

### PRECIPITATION OF RAIN AND SNOW IN NEBRASKA AND ADJOINING STATES.

With but few exceptions, measurements of the precipitation of rain and snow in Nebraska and adjoining States on the western bank of the Missouri River began with the establishment of the Signal Service in 1871. These measurements have been continued by the Weather Bureau, and are now made regularly at a relatively large number of stations reporting to the directors of the respective State services and

the central office in Washington, D. C.

In order to obtain a definite knowledge of the amount of water that is precipitated, on the average, during the year, it is essential that daily registers of the rainfall be kept at a number of stations, and that the records be continuous. Of the total number of registers kept but few fulfill the latter requirement. The table below shows the location of the more important registers for Nebraska during the last twenty years, to which has been added the record maintained at Yankton, S. Dak., separated from Nebraska by the Missouri River only:

Table I.—Location of important rainfall registers.

	12 -1 -1		Eleva	ation.	
Station.	Latitude.	Longi- tude.	Above sea.	Gauge above ground.	Authority.
	0 /	0 1	Feet.	Feet.	
Hay Springs	42 40	102 38	* 3, 800	24	Wm. Waterman.
Valentine	42 50	100 32	2, 613	26	Observers of the Weather Bureau.
Yankton	12 54	97 28	1, 232	43	Do.
Valentine	42 54	97 28	1, 232	43	Do.
Sidney Barracks	41 09	102 59	4,090		U. S. Army surgeons.
North Platte	.41 08	100 45	2,841	34	Observers of the Weather Bureau.
Genoa (near)	41 26	97 43	1,584	2	Geo. S. Truman.
De Soto	41 28	96 03	1, 100	8	Charles Seltz.
Omaha	41 16	95 56	1, 113	76	Observers of the Weather Bureau.
Marquette	40 58	98 00	1,825	2	John Ellis.
Crete	40 38	96 59	1, 440	2	Observers of the Weather Bureau and Doane College.
Plattsmouth	41 00	95 50	983		H. B. Burgess and others.

<sup>\*</sup> Estimated.

Table II contains the daily amounts of rain and melted snow expressed in inches and hundredths for the period during which a record has been kept at three stations representing different portions of the State, viz: Omaha on the eastern border, near Genoa; east central portion, and North Platte in the western portion.

In any study of local or seasonal variation a record of the precipitation in detail is necessary, since the total for the month or year, as usually given, affords no clue to the actual distribution of rain throughout the growing season. The intensity of each shower, moreover, can not be determined from the monthly and annual tables. To present this important phase of the question Table III has been prepared, showing the number of days each year during which a record was kept on which the daily precipitation was from one to nineteen hundredths of an inch (0.01 to 0.19), twenty to eighty hundredths of an inch (0.20 to 0.80), and eighty-one hundredths of an inch and over (0.81 and over).

Generally rains of the first class may be considered as *inconsequential*; rains of the second class as the *useful* rains, while those of the third class are apt to wash the fields and otherwise damage growing crops,

and may be called damaging.

It will be noticed that at a few stations the number of very light rains is not so great as at other stations in the immediate vicinity. It is believed, however, that this deficiency can be explained by the fact that the skilled observers serving at regular Weather Bureau stations pay greater attention to the measurement of precipitation in small amounts than voluntary observers near by, who have neither the time nor the appliances, in some cases, to secure a rigidly accurate measure of the lighter amounts of precipitation.

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Table II.

Daily precipitation at Omaha, Nebr.

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Daily precipitation at Omaha, Nebr.—Continued.

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Daily precipitation at Omaha, Nebr.-Continued.

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Daily precipitation at Omaha, Nebr.-Continued.

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Daily precipitation at Omaha, Nebr. -- Continued.

DECEMBER-Continued.

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28.	1.1.0 1.0.0	36
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25.	00.0000	36
24.	10 E E E E E E E E E E E E E E E E E E E	27
23.	00 00 00 02 .02	36
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Daily precipitation near Genoa, Nebr.

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Daily precipitation near Genoa, Nebr.—Continued.

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Daily precipitation near Genoa, Nebr.—Continued.

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Daily precipitation near Genoa, Nebr.—Continue.

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Daily precipitation at North Platte, Nebr.

### JANUARY.

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Daily precipitation at North Platte, Nebr.—Continued.

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Daily precipitation at North Platte, Nebr.—Continued.

JUNE-Continued.

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Daily precipitation at North Platte, Nebr. -- Continued.

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Table III.—Rainfall intensity at ten stations in Nebraska and one in South Dakota.

									Aver
Days with—	1886.	1887.	1888:	1889.	1890.	1891.	1892.	1893.	age
nuary:									
·01 to ·19	- 10	. 5	1	4	1	2	4	2	3
·20 to ·80 ·81 or more		3	1		2	1	2		1:
bruary:									
'01 to '19	- 8	3	$\frac{7}{2}$	4 2	7	2 4	3	$\frac{4}{2}$	1
·20 to ·80 ·81 or more	- 1	1	4	4		4		4	1
arch:							. /		
'01 to '19		$\frac{5}{2}$	4 2	3 2	5	5 6		3 5	3
·20 to ·80	. 0	4	2						
pril:				43	h	-		(*)	.17
·01 to ·19 ·20 to ·80		$\frac{5}{2}$	$\frac{1}{2}$	3 4	. 8			6 4	3
·81 or more		ī		1					100
ay:			_	9	. 4	9			3
·01 to ·19 ·20 to ·80		2 3	5 7	3 6	4	$\frac{3}{2}$			3
·S1 or more		4	2	1		1			.:1
ne: ·01 to ·19	. 5	1	1	2	1.	7			2
·20 to ·80		1	3	1	4	3			
'81 or more		2	1	3	2	1			1
dy: ·01 to ·19	. 2	7	3	3	4	2			3
·20 to ·80		2	4	3	3	4			3
·81 or more			1		1	2			
agust: - ·01 to ·19	. 3	6	4	2	4	2		3	3
·20 to ·80	. 4	6	4	3	2	3		2	3
'81 or moreptember:			1	1					
·01 to ·19	. 1	1		1		4		1	1
·20 to ·80	. 1	2		2		2			1
·81 or more						1			
·01 to ·19		1	2	3	2	4		2	2
·20 to ·80 ·81 or more		1		1	1	1		1	
ovember:									
·01 to ·19		2	1	2	2	4		5	2
·20 to ·80 ·81 or more	- 4		1		1	3			1
ecember:						44		* * /	
·01 to ·19 ·20 to ·80		3 4	4	1	1	$\frac{1}{2}$		$\frac{3}{2}$	$\begin{vmatrix} 2\\1 \end{vmatrix}$
'81 or more		4							1
			1.	1	1				1
VA	ALENT	INE,	NEBR	) U 0					

	1	1	1	1	1				
January:	5	10	3	- 6	7	0	4	( )	6 · 1
·01 to ·19 ·20 to ·80		. 10	0	3	1	8	4	=	.9
*81 (over)								record	
February: '01 to '19	7	3	6	3	8	5	5	I re	5 ·3
·20 to ·80		1	1		2	4	5 1	No	1.3
*81 (over)									
·01 to ·19	6	2	8	3	7	9	8	7	6.2
· ·20 to ·80	1		2	. 1	4	3	4	3	2.2
·81 (over)						1		1	·2
·01 to ·19	8	5	4	4	2	5	10	4	5.2
·20 to ·80	3	3	2	3 2	3	3	7	6	3.8
*81 (over)		1	~	2			, 5.		-9
·01 to ·19	8	5	11	8	7	6	17	5	8.4
·20 to ·80. ·81 (over)		2	5 4	4	2	B	5 2	2	3.2
June:	1	.L	4		-		-	1	1 4
·01 to ·19	9	7	2	4	9	9	7	4	6.5
·20 to ·80 ·81 (over)	4	1 2	4	5	$\frac{2}{2}$	- 5	3	3 2	3.4
July:		~					1		
01 to ·19	7 3	$\begin{vmatrix} 8\\2 \end{vmatrix}$	6 1	$\begin{bmatrix} 5 \\ 2 \end{bmatrix}$	7 2	7 3	9	5	6.5
' ·20 to ·80. ·81 (over)	3	1	3	1	2	2	1	1	1.6
					,		_		-

#### Table III.—Rainfall intensity at ten stations in Nebraska, etc.—Continued.

#### VALENTINE, NEBR.—Continued.

Days with—	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Average.
August:									
01 to ·19	5	8	6	6	7	5	10	3	6.2
·20 to ·80	2	5	4		5	4	5	3	3 . 5
'81 (over)	ī	1				ŝ	1		•8
September:				1					
01 to 19	6	5	2	8	3	4	1	1	3 .7
20 00 00				3	1	1	2		1.3
'81 (over)	1	2							•2
October:									
·01 to ·19	2	5	: ,	8	4	3	1	4	3 .4
·20 to ·80	1	1		1	1	1	2		1.0
'81 (over)				1		1			.2
November:									
·01 to ·19	7		2	4		8	5	6	4.1
·20 to ·80	1	1		1	1	1		. 1	.8
'81 (over)			1						
December:		:					7.0		P -1
·01 to ·19	9	5	3	2	1	2	13	6	5.1
·20 to ·80		_ L		2	1	1		1	.8
'81 (over)		1							

#### YANKTON, S. DAK.

## Stormore	Days with—	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Average.
February:	·01 to ·19 ·20 to ·80			12 2	8	9	6	1		9 3	2		6		8		7	3 2			7		6.8
01 to 19	February:		2 2	13	2	2		5	3		3		2	7			6	8	5		6		5·6 1·0 ·2
01 to 19	·01 to ·19 ·20 to ·80 ·81 or more			1	2	10 2	5 - 2 	5 2	4 2	7 2	4	4	11	2	5		8 2					1	6·2 1·0 ·2
**Olto 19	01 to 19			2		5	3			7	5	2	3 2			3	3	3	3		4	3 2	5 · 5 2 · 8 1 · 6
20 to 80 7 2 6 4 6 5 6 8 3 4 3 1 5 2 4 3 8 2 5 1 2 3 9 81 or more	01 to 19 20 to 80 81 or more.	1	6	3	3	5	6	5	6	5	5 2	7	2	4 2	2 1	1	8	3	2 2	1	6 2	1	6·8 4·4 1·3
20 to 80	•20 to •80 •81 or more July :	7	2 4	6 2	4	6 2	5 3	6 3	8	3	4 2	3 2	1 1	5 1	2 2	4	3	3	2	5 2	1	2 1	3.9
20 to 80	·20 to ·80	4	2	1 3	8	2	2 4	3	3	3 3	3	5	2 2	3	1	3	1	3	3 1	5	1	3 2	2·7 1·5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	·20 to ·80	1	4 2 8	5 2	3 2	2	8	2	2 2 1	4		2	1	1 4	2 3	6 1 5	5 1	2	2		3 2	1.	2.3
November:     01 to 19	·20 to ·80 ·81 or more October:	2	4	1	3 2	2	2	1	2	7	4	2 8	3	3	$\begin{bmatrix} 2 \\ 1 \end{bmatrix}$	3	!	3 1 3	8	3	3		3.8
	·81 or more November: ·01 to ·19			4	9	10				2	2			3	5	2		5	3		1	3	·2 4·2
01 00 30	** *81 or more  **December: ** 01* to `19			4		8	9		8	2		4	11	1 2	1 10	1	5						_

TABLE III.—Rainfall intensity at tenstations in Nebraska, etc.—Continued.

#### SIDNEY BARRACKS, NEBR.

Days with	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Average.
January: ·01 to ·19		2	30	1		1		1	1	2	2	2	, 1	4		3		1.6
·20 to ·80 ·81 or more		1		2		4		1	1						2			•9
February: .01 to .19				1		1	1	4	2	2				1	2	1		.9
·20 to ·80			2	1				2			2	2	2	1		3	2	1.1
81 or more March:						,					1				1			.1
·01 to ·19			$\frac{3}{4}$	1	1 4	2	1	$\frac{2}{2}$		4	2	5	4		2 2	4	1 1	2:1
'81 or more							2											•1
01 to 19		1 3	1 1	4 3	1	1 2	2	5 3		7	8	3	5 3	4 5	1	$\frac{5}{2}$	1 1	3·1 1·8
'81 or more May:		1		1		. 1		1					1		1	3		.6
01 to 19		4	4 2	2	4 2	3 8	2	2 4		6	$\frac{5}{2}$	5 4	1 3	4 2	3 4	1 5	5	$\begin{array}{c} 2.8 \\ 3.2 \end{array}$
81 or more			$\frac{2}{2}$	ī	1			. 2			~	$\frac{1}{2}$			1	1		•6
·01 to ·19	4	1	1	d 1	4	3	4	2		2	2	4	4	4	3		3	2.6
·20 to ·80 ·81 or more	3	2	4	1	1	3	2	1		1	3	2 1	2	1	3 2 2	2	4	2.1
July: 01 to .19	6	2	4	4	1	4	6	3			3	5	81	2	1	5	6	3-3
·20 to ·80 ·81 or more		$\bar{2}$	3	3	$\overline{2}$		ĺ	5		2	$\begin{bmatrix} 2\\2 \end{bmatrix}$	1	$\frac{1}{2}$	1	$\frac{1}{4}$	3	1	2:1
August:				_										, A				
01 to 19 20 to 80	2 3	$\begin{array}{c c} 2 \\ 1 \end{array}$	1 4	2 4	1	$\frac{2}{2}$	2 2	5 3		3	$\frac{2}{1}$	$\frac{5}{2}$	$\frac{2}{2}$	4	$\frac{1}{6}$	$\frac{1}{2}$	2 3	2.1
'81 or more September:	1	1		2	1			1			$\overline{2}$							.5
·01 to ·19	4	2			1	5	1	11			3				3			1.7
·20 to ·80		11	1	4	1 1	2	ii			2	$\frac{1}{2}$				1	2		1.2
October:	2	1	2			2	3	1							1	1	1	.9
·20 to ·80		$\frac{1}{2}$		1		$\frac{1}{2}$				1		1	2	1			1	•7
'81 or more November:			1			_L									1	1		12
°01 to °19 °20 to °80	1	1		4			1	3		2	2	1			1		2	• • • • • • • • • • • • • • • • • • • •
·81 or more																		
December: 01 to 19	1	2	2			1		1		3	3		2	1	1		1	1.2
·20 to ·80 ·81 or more				1	1		1									1	1	·3 ·1

#### NORTH PLATTE, NEBR.

Days with—	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Average.
January:	6	4	6		3	2	5	5	10	4	5	6	4	3	4 2	7	4 2	5 3	3	4 · 5 · 6 · 1
February:	6	2	1 1	2	5	2	4	3	3 3	9	5	5	6	5	3	4	10	4 1	5	4 · 4
March:     '01 to '19	3 1	6 1	7	5 1	1	3	6 2	2	6	10 3	7	6	6	6 3	3 1	5	5 2 1	6 1	5 1.	5 · 2 · 9 · 1
April:	7	5	4	$\begin{bmatrix} 7 \\ 2 \end{bmatrix}$	5 1 1	3	7	8 3	12 3 1	8 4	7 3	6 5	2 7	3 2 1	4 5	6 5 1	4 1 1	8 5 1	4	5·8 2·5 •5

#### Table III.—Rainfall intensity at ten stations in Nebraska, etc.—Continued.

#### NORTH PLATTE, NEBR.—Continued.

Days with—	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Average.
May:	8 3	6 3 1	6 3 1	7 4 1	7 1 1	6 5	6 3 2	10 4 2	8 6 1	7 5	8 3 1	6 3 2	3 2	7 8 1	7 3 1	6 2	7 3-	8 7	4 3	6·7 3·8 ·8
'01 to '19 '20 to '80 '81 (over) July:	1 4	4	4 2 2	4 7 1	7 4 1	4 6	4 3 4	9 6 2	5 2	6 2	6 8	7 1	4 2 2	4 2 1	9 3	4 3	9 5 4	7 1	7 3 2	5·5 3·5 1·1
'01 to '19 '20 to '80 '81 (over) August: '01 to '19	9 1 2	6 2 8	2 5 4	8 2 2	7 4 3 4	3 6	6 1 2	6 5 2	7 3 9	8 2 1 8	6 4 1	3 1 6	3 4 1 3	5 3 1 7	2 7 1 3	5	6 5 1 9	10 1 1 3	8 1	5·9 2·9 ·8
20 to 80 81 (over) September: 01 to 19	2 3	2 1 5 3	3 2 2	3	4	1 2 2 1	3	1 2 1	3 2 4	2	7 1 9	3 1 1	6 1 5	1 1 1	3 2	3	7	4 1 4 1	2 2 1 1	3·1 ·7 3·4 1·2
20 to '80 ·81 (over) October: ·01 to '19 ·20 to '80	1	3 2	5 2	4	2	1 1 2	2 1 7 2		10 5	6	4 3	1 1 2	3 3	3	1 4	3 1	2 1	4	2	3·6 1·2
'81 (over) November: '01 to '19 '01 to '80 '81 (over)	3	5	2 1	4	2	5	3 1	1	1 1 1	2	8 3	3	4	1	5	1	4	5	3	3 · 2 · 5
December:	1	4 1	3 3 1	4	5 1	6	2	8 1	8 3	12	3 2	6	6	2 1	1 1	3	8	5	2 1	4·6 ·8 ·1

#### (NEAR) GENOA, NEBR.

															-				-
Days with—	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Average.
January:	And had	2 5	1	2	2 2	8 1	5 1	3 3	2 2	3 2	2 5	4 1	2	2 3	4	4	3	4	2·6 1·7 ·1
February:	1	2 1	2	1 3	2	1 4	1	2	4 3	9	2 1	5 2	4	3	4	2 1 1	1 2	3	2·4 1·7 ·1
01 to ·19	1 4 2	3	2 1 1	3 1	3	3		5 1	2 6 1	4	2 2	2 1	4	2	5	8	6	4 2 1	2·9 1·7 ·4
01 to 19	4	7 2	5 3	5	1 2 1	7	3 5 1	4 2	5 3 1	8 1 3	4 3	4 3 1	1 3 1	4	2 1 1	2 3 2	3 5 2	4 2 1	3·3 3·1 ·9
·01 to ·19 ·20 to ·80 ·81 (over)	2 3 2	3 9 3	6 4 2	5 3	1	3 6 3	1 4 3	6 4 2	3 2 2	7 3	3 4 3	5	5 3 2	7 3	7 3 1	5 4 1	10 3 4	2 4 2	4·5 3·8 1·7
·01 to ·19	2 4 2	6 2 3	10	3 4 1	7 3 3	2 5 1	4 4 1	4 4 3	3 4 1	5 2 1	2 6 1	2 4 3	2 4 2	5 2 2	5 3 3	3 4 5	2 2	4 3 1	3·4 3·9 1·8
01 to 19	4 4 3	3 2	2 6 2	9	1 6 2	1 6 1	2 6 	4 2 3	1 7 2 3	6 2 3	2 3 1 3	4 2 3	3 2 3 3	4 5 2 5	1 1 6	9 7 1	1 2 1	4 4 2 5	3·7 3·7 1·5
01 to ·19	3 2 1	4	1	5 4	2 6 1	3 1	1	5 3	1	3 3 3	4	7 2	3 3	2	6 3 1	5 2	6 2 2	3	3.1

Table III.—Rainfall intensity at ten stations in Nebraska, etc.—Continued.

(NEAR) GENOA, NEBR.—Continued.

Days with	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Average.
September:	2 4 3	1 1 1 1	2 3 1	3	3 2	1 3 2	····	3 1 1	2 3 1	6 4	4 5 1	3 1 1	2 1	3 3	2 1 1	6 2	1 2	1	2·4 2·2 ·8
·01 to ·19. ·20 to ·80. ·81 (over)	1 1 1 1	1 1	1 1	i	4	5	3	3 1	6	4	1 1 1	2 1	1 2	4	2	2 1 2	1 1 1	1	1·8 2·1 ·4
November:     01 to 19	1 3	1 5	i	1 2	4	2 2	1		1	2	4	3 1	2	3 2	2	4	1	2 1	1·8 1·2 ·1
December:	2 1	5 3	4 3	2 2	1 1 4	2	3 2	3 2 1	5	3 1	5 4	3 1	3	1 1		3 1 1	7 1 	1 2	2·7 1·8 ·3

#### DE SOTO, NEBR.

		1	-			11													1. 4	1
Days with-	_:	10		1.	~				oi.		_:			1.	~		-		0:	1
	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1893.	
	-	-	-		-	-	-	-	- 1	-		=	-	-	-		-		-	-
fanuary:	7	7	9	5	9	3	2	-	-	9	-	C	C	e	9	0	9	1		
·01 to ·19	- 1	1	2	5	2 2	0	3	7	5 2	2 3	5	6	6 4	6	2 2	2 2	3 2	3		1
'81 or more			-	1	2		1	1	1	0	1	1	4		4	-	4	0		1
February:								***												
01 to 19	6	6	5	1	4	5	3	9	2	6	6	8	2	8	7	3	4	3		4
·20 to ·80	2			2	1	2	0	2 5	2	1	2	1	ī	1	1		1	2		1
·81 or more		1	1								-						1			1
farch:			-	1																
·01 to ·19	7	1	5	7	3	8	4	8	3	6	6	4	4	5	3	2	6	6	7	1 5
·20 to ·80	2	1	3		4	2	1	2		1	6		2	1	1	1	3	4	2	1
·81 or more		2											1		3					
pril:																				
·01 to ·19		4	8	4	3		3	3	5	11	10	4	5	9	3	8	2	7	6	1
·20 to ·80		3	4	2	3		1	5	1		1	5	6	1	4	2	2 2 1	5	4	1
·81 or more		1		3				1	2	1	1	1			1		1			
lay:				1															12.1	
·01 to ·19	6	12	4	9	5		4	6	5	5	10	7	4	4	7	5	10	5		1
·20 to ·80	3	3	1	7	6	2.	5	8	5	5	4	4	5	1	12	4	6	5		4
·81 or more		1	1	2	1			4	1	3		1		1		1	1	1		
une:		-	1 .			1													131	
·01 to ·19	6	10.	4	12	4	6	6	11	6	5	3	6	4	5	4.	4	7	9	3	1
·20 to ·80		4	5	4	- 4	1	5	2 2	5	6	6	2	3	2	5	4	3	4	3	6
·81 or more	2	2		1	2	3	1	2	3	3	1	3		2		3	4	2	1	
uly:	0			0	~	2	0	_		_			0	1						
·01 to ·19	6	2.	4	6	5	5	3	5	3	7	6	9	6	7	2	6	8	8	3	1
·20 to ·80	2	7	5	1	7	4	7	2	6	2	7	3	1	1	2	4	4-1-	3	3	6.0
'81 or more	1	2	.4	1	2	7		2	1	1	4	1			3	1	1	3	3	1
ugust:	-	-	-	-	0				-	0		_	-	10	~		-		1	
·01 to ·19	7 2	5	7	7	3	3	4	3	5	6	3	5	7	12	5	6	7	6	4	100
·20 to ·80	2	6 2	2 3	2 2	2	5	5	2	3		4	7	1		4	2	5	-2	2	64.7
·81 or more		4	3	4	1		1			3	3	1	1	2	3				1	
eptember:	0	9	3	E	5	=		-	7	9	-	0	7		-	-	2	0	-	
·01 to ·19 ·20 to ·80	8	2	3	5	4	5 2	5	5 5	1	3	5	6 3	7 6	4	5	7	3	6		4.64
81 or more	2	3	4	1	4	4	3	9	1	_5	4 3	3	0	2 2	1	1	3	77	1	4
ctober:	4	1	4	1							9			4			1	1	1	
'01 to '19	4	4	3	8	4	2	2	9	6	6	4	2	3	3		5	7	1		-2
·20 to ·80	1	2	1	4	1	1	3	5	3	3	3	1			3	5	7 2	4		1
'81 or more	1	1	-	1	1	2	U	1	0	1	1	1 1	1 1	1	O)	1	2	2		-
ovember:	-		-	-	-	-		-		-	1	+	-	7.				2	* * * *	
·01 to ·19	4	2	4	7	2	3	7	4	3	1	5	2	2	2	4	3		5	5	3
·20 to ·80	1	1	1	1	1		1	2	2	2		2 2	ĩ	ī	-	0	1	1		1
·81 or more	1	1	3			1							1	-	-	1	1	-		
ecember:	-											1	-			-	-			
·01 to ·19	4	2	6	5	5	4	6	4	3	4	6	1	5	4	6	2	2	5	1	1 5
·20 to ·80	1			4				2	3	1	1	5	3	3	1		1	100		]
·81 or more	-	2	-	-		1		-		-	-	0	0	0	-			i		

Table III.—Rainfall intensity at ten stations in Nebraska, etc.—Continued.

#### OMAHA, NEBR.

Days with—	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1.880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	Average.
January:	4	3	6 1	4	9	3	5 1	3 2	1	8	13	6 2	7 2	4 2	9	13 2	6 1	2 2	5 3	8 3	3 3 1	5	5·8 1·2
February:	5 2	6 1	2	7 1	6 1	4	5	5	6 2	2	4 3 1	5 1	9 2	10 3	8	5	8 2	3 2	2	8	4 3	7 1	5.5
March:	6	6 3	1 1	3 4	1 3	4 4 1	5 3	2 8	7 3	7 1	7	3 1 	10	6 5 1	6	3 4	4 1	5 2 2	5	8 2	9 4	8 2 1	5·3 2·4 ·2
April:     01 to 19	2 4 2	5 1 3	4 6 1	6 1 1	4 5 1	6 5	6 3 3	6 2 2	5 4 	3 1 	4 7	7 2 3	9 1 1	3 2 1	5 9 1	8 2	5 3	3 4 1	6 2	4 1 1	5 4 1	11 5 2	5·8 3·4 1·1
**************************************	5	2 5 3	6 4 2	7 1	8 1 2	3 4	9 9 3	8 2	5 4 2	7 2 2	6 6 3	7 8 1	7 8 3	9 2	5 3 3	7 4 2	4 2	7 7 1	5 3 1	8 4	4 4 3	9 7 2	6·1 4·6 1·6
01 to ·19	3	2 2	3 4 2	2 6 2	5 2	5 4 1	10 6 3	6 3 4	4 6 1	9 2 1	10 3 2	7 4 5	4 3 6	3 3 4	8 5	7 2	5 2 3	3 3 2	3 3	6 4 2	8 5 2	5 1 1	5·5 3·6 2·2
·01 to ·19	5	3 7 1	4 5 1	6 1	3 4 5	4 9 2	2 2	4 4 4	5 6	5 4 2	3 1 3	6 3 4	4 1 3	7 4 6	7 4 3	1	5 1 1	8- 1 1	7 2 2	6 1 1	10 4 1	5 3 2	4·9 3·3 2·0
01 to ·19. ·20 to ·80. ·81 or more	2	7 2 1	2	4 3 1	3 4 5	2 1 4	3 2 2	3 1 1	6 3	1 3 4	3	6 2	7 2 2	2 4 3	5 4 2	5 2 1	5 4 2	6 4 1	4 2 1	9 2	4	3 1	4·3 2·6 1·5
·01 to ·19. ·20 to ·80. ·81 or more October:	1 2	5 3 2	5 1 1 1	7 5 3	4 3 1	3 6 1	6 1 1	1 2	3	6 2 1	2 2 4	1 	6 2	3 3 3	5 2 1	8 9 1	4 3 1	5	5 2 1	3 1	7 1 1 1	3	4:4 2:8 1:3
01 to 19	3 1	2	6 1 1 1	3	2 2	1	5 5 2	3 1	1 1 2	3 1 3	6 7 1	4 7	12 2 2	3 3 3	1 2 2	2	1	3	4	7 1	6 2 2	3 2	3:8 2:3 1:0
'01 to '19	2 2	1	2	2 2	2	7	6 4	1 1	3 2 2	7	5 2	3 1 1 1	1	1 1	1	5 1 1	1	2	1	1 2	5	3	3 · 4 1 · 5 · 4
01 to 19	. 2	5	8 2	3 1	3 1	7	5 6	8	9 1 1	6	8 2	8 1	8 1	13	1	5 2 1	3	6 2	1	1	6 2 1	9	5·9 1·3 ·2

#### MARQUETTE, NEBR.

												1
Days with—	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Aver- age.
January:												
.01 to .19			1	3	3	. 2	3	2 1	2	3	4	2.3
·20 to ·80		5 2	- 3	4			2	1	3	1		1.9
'81 (over) February:		4,	. 1									6.
·01 to ·19	3	5	4	2 2	5	2 2	3	2	1 4	1	2 3	2.7
·20 to ·80	1	1	1	2	1	2		1	4	3	3	1.8
·81 (over)												
March: 01 to 19	4	4	2	1	1	1		5	5	0	0	0.0
·20 to ·80	4	2	4	4 4	1	1 4	1	9	9	3 2	3 2	2.9
·81 (over)	- 1	4		1		1	1		1	4	4	.4
April:				1	-				J.			4
·01 to ·19	4	2	4	1	1	3	3	2	1	12	2	3.2
·20 to ·80	4	3	3	4	5		2	1	5	2	2 1	2.7
·81 (over)		1	3	1		1	1		1	1		.8
May:										1		
.01 to .19	4	1	4	1	2	3	3	3	5	5	4	3 .2
·20 to ·80	7	2	4	5	4	6	3	1	5	6	2	4.1
'81 (over)	1	2		3		1	1	1	2	3	2	1.5

TABLE III - Rainfall intensity at ten stations in Nebraska etc.

Control 10	TABLE III.—Ra	infall	linter	isity a	it ten	statio	ns in	Nebra	iska, e	etc.—(	Conti	nued.	
Fine:    101 to 10		2.5	MAR	QUET	TE, N	EBR	-Cont	inued.					
10 to 19   9	Days with—	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	
Septembers		146 15 15 15 15		14/19	11/2	Tava		THE P			4-47	4.00	
Septembers		1 5	4	2 5		1 2							
01 to 19.	·81 (over)	3				5							
20 to 88	July:	3	3	3	3	3	5		17 17	6	3	3	3.0
August:	·20 to ·80	3	7	2	2-		2			2			3.4
The content of the			3	2	1.		1	5		3			1.5
Sel (over)	01 to 19										2		
September:			3			6			4			3	
20 to '80	September:						13.3	11:34					1.0
Self (over)			5				1	4			4	1	
Otto 19.	· 81 (over)				1			1				1	.5
20 to '80.		2	3	1	3	1	1		2	2		2	1.5
November:	20 to 80	4	3			- 1	2			-3-	Contract of the Contract of th		
Otto 19	November:	1		1						1-1-	1		4
Si (over)   1	·01 to ·19							2		4	2		
Otto 19		A		1	1	2			2			2	
CRETE, NEBR.   CRET		A TOP A		9	9	0	9	1				9	9.0
SI (over)   SI (			1				2		2			2 2	
Day's with—	81 (over)		4-1-11-4		.1								
Day's with—	47 12 74度個公司 九月五日		t in	CI	RETE	NEBI	R.	12.9	h '	1	12.18.		
January:	2 14 24 2 1 3 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 4 1 4	1	1,110				2 30 000	9		
O1 to 19	Days with—	11	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	
O1 to 19	January:	FEED					1016	1			- 6	GC TO	
## February:	01 to :19		4	3			1 (		5			3	
10 to 19	·81 (over)	4		1			183			1	*****		
20 to 80				5	2	3		5	4	3	4	2	3.1
March:       "Ut to '19       6       3       4       2       1       3       8       8       5       4 '4         20 to '80       2       3       1       5       4 '4       2 '4         '81 (over)       1       1       1       1       1       2       2         April:       1       2       5       3       3       6       3       3       6       4 '1       2       2       1       3       3       6       6       4 '1       2       2       1       3       3       6       6       4 '1       2       3       3       3       5       1       3'3'       3       5       1       3'3'       3       5       1       3'3'       3       5       1       3'3'       3       5       1       3'3'       3       5       1       3'3'       3       5       1       3'3'       4       4'4       2       3'3'       3       7       4       4       8       5       4'4       4'4       4'4       5'3'       3'4'       4'4'       4'4'       4'4'       5'3'       4'4'       4'4'       4'4'       4'4'       4'4' </td <td>·20 to :80</td> <td></td> <td>2</td> <td></td> <td>2</td> <td>2</td> <td>19.11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	·20 to :80		2		2	2	19.11						
Cult to 119	*81 (over)										******		
Sl (over)	·01 to ·19			3		2				8			
April:			2					3		5	4	4	
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